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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/465,054	12/16/1999	DAVID BURTON	990326.ORI	8408

7590

08/20/2004

Aleya R Champlin Esq
Fulbright & Jaworski LLP
225 South Sixth Street # 4850
Minneapolis, MN 55402-4320

EXAMINER

PATEL, MITAL B

ART UNIT PAPER NUMBER

3743

DATE MAILED: 08/20/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/465,054

Applicant(s)

BURTON, DAVID

Examiner

Mital B. Patel

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 May 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 32 and 57-78 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 32, 57-78 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 16 December 1999 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/2/04 and 5/18/04 has been entered.

Response to Amendment/Arguments

2. Applicant's arguments with respect to claim 32 have been considered but are moot in view of the new ground(s) of rejection. Please also note that with respect to the rejection of Tripp, Jr. et al (H1039), Applicant argues that Tripp's mask does not include any extensions adjacent to the forehead or top of the skull. However, Applicant does not positively recite such an extension.

Specification

3. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally **limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited.** The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

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The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

Claim Objections

4. There is a lack of antecedent basis for the following limitations:

- Claim 74, line 2, "the sensors"
- Claim 75, line 2, "the sensors"

Correction is required.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

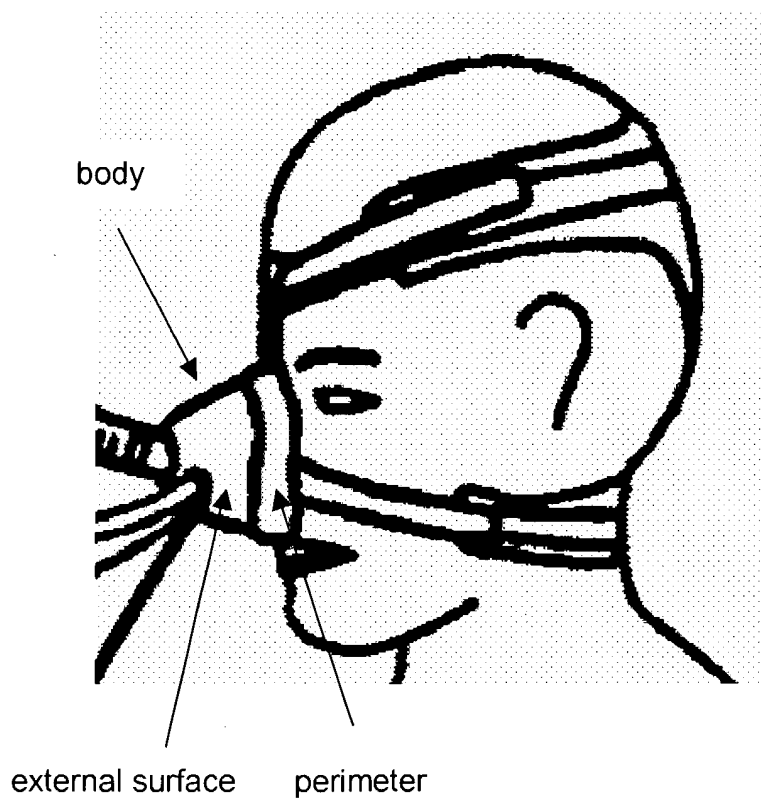
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7. Claims 32, 57-61, 77, and 78 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miles (US 5,353,788) in view of Berthon-Jones (US 6,029,665).

8. **As to claim 32**, Miles teaches a breathing mask **3,26** for monitoring a patient during gas delivery comprising a body (**See Fig. 2 attachment below**) having an internal surface (**inherent from Fig. 2 attachment below since mask is shown to be cupping the nose**), an external surface (**See Fig. 2 attachment below**), and a perimeter surface (**See Fig. 2 attachment below**) shaped to form a seal around the patient's nose; and at least one EEG sensor (**See Col. 4, lines 33-35; lines 44-45; lines 55-59; Col. 5, lines 6-15; and Col. 7, lines 37-51 which disclose a plurality and variety of sensors including an EEG sensor and further teach that the sensors may be mounted inside the mask or connected to the mask thereby reading on the limitation "extended from the mask"; it should also be noted that the physiological specific sensor is located on the respective/corresponding anatomy as shown in Fig. 2 and therefore, it would be obvious to one of ordinary skill in the art to place an EEG, which inherently measures/detects brain activity near or on the head and away from the mask in order to get a more precise reading**) extended from the mask and positioned to detect brain activity. Miles teaches essentially all of the limitations except for wherein the body has a perimeter surface adapted to seal around the patient's mouth. However, Berthon-Jones does teach a breathing mask for monitoring a patient during gas delivery which breathing mask is disclosed as being a nose mask, a face mask, or a nose and face mask (**See Col. 7, lines 47-49**) to provide a sealing fit to a patient's face. Therefore, it would have been

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obvious to one of ordinary skill in the art at the time of the invention to substitute the nasal mask of Miles with a combination nose and face mask of Berthon-Jones which would form a seal around both the nose and the mouth to provide a sealing fit to a patient's face. Furthermore, providing a combination nose and face mask that covers both the nose and the mouth ensures that all of the supplied air or oxygen is delivered to the patient if there is blockage either in the nasal passageway or the oral passageway.



9. **As to claim 57**, the above combination teaches a breathing mask wherein the perimeter surface is adapted to detect muscle activity (**See Col. 4, lines 33-35; lines 44-45; lines 55-59; Col. 5, lines 6-15; and Col. 7, lines 37-51** which disclose a plurality and variety of sensors including an EMG (chin) sensor and further teach that the sensors may be mounted inside the mask or connected to the mask; Since the combination teaches a nose and face mask which encompasses the mouth, a portion of the perimeter would be able to detect muscle activity via the EMG chin sensor).

10. **As to claim 58**, the above combination teaches essentially all of the limitations except for wherein the perimeter surface is adapted to detect ECG. Miles does teach an ECG lead **6 (See Fig. 2)** placed over a patient's heart/chest area. However, it should be noted that Miles also teaches that some of the sensors may be mounted inside or connected to the mask (**See Col. 4, lines 44-45**). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention and based on the disclosure by Miles that the sensors, including one that detects ECG, may be placed inside the mask or connected to the mask (a perimeter surface is encompassed by the disclosure) to provide an alternative placement of the sensor.

11. **As to claim 59**, the above combination teaches essentially all of the limitations except for further comprising a flow sensor connected to the internal surface. Miles does teach an airflow sensor (**See Col. 4, lines 33-35 and Col. 5, lines 20-21**). It

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should be noted that in Col. 5, lines 20-21, Miles teaches a flow sensor contained within the CPAP device; however, Miles also teaches that some of the sensors may be mounted inside or connected to the mask (**See Col. 4, lines 44-45**). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention and based on the disclosure by Miles that the sensors, including a flow sensor, may be placed inside the mask or connected to the mask thereby providing an alternative placement of the sensor.

12. **As to claim 60**, the above combination teaches essentially all of the limitations except for a breathing mask further comprising an oxygen saturation sensor extended from the mask. Miles does teach an oxygen saturation sensor **5** but the oxygen saturation sensor of Miles is placed on a finger rather than extending from the mask (See Fig. 2). However, Miles also teaches that some of the sensors may be mounted inside or connected to the mask (**See Col. 4, lines 44-45**). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention and based on the disclosure by Miles that the sensors, including an oxygen saturation sensor, may be placed inside the mask or connected to the mask thereby reading on the limitation "extended from the mask" and thus providing an alternative placement of the sensor.

13. **As to claim 61**, the above combination teaches essentially all of the limitations except for wherein the perimeter surface is adapted to detect eye movement. Miles does teach a sensor that detects eye movement (**See Col. 4, lines 33-37**). Miles also teaches that some of the sensors may be mounted inside or connected to the mask (**See Col. 4, lines 44-45**). Therefore, it would have been obvious to one of ordinary skill

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in the art at the time of the invention and based on the disclosure by Miles that the sensors, including a sensor that detects eye movement, may be placed inside the mask or connected to the mask (a perimeter surface is encompassed by the disclosure) to provide an alternative placement of the sensor.

14. **As to claim 77**, Miles teaches a breathing mask **3,26** for monitoring a patient during gas delivery comprising a body (**See Fig. 2 attachment above**) having an internal surface (**inherent from Fig. 2 attachment above since mask is shown to be cupping the nose**), an external surface (**See Fig. 2 attachment above**), and a perimeter surface (**See Fig. 2 attachment above**) shaped to form a seal around the patient's nose; and at least one EEG sensor (**See Col. 4, lines 33-35; lines 44-45; lines 55-59; Col. 5, lines 6-15; and Col. 7, lines 37-51 which disclose a plurality and variety of sensors including an EEG sensor and further teach that the sensors may be mounted inside the mask or connected to the mask and therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to couple the EEG sensor to the body as providing an alternative placement for the sensors, which sensor would be capable of being positioned on a top portion of a patient's head upon application of the body to a patient**).

Miles teaches essentially all of the limitations except for wherein the body has a perimeter surface adapted to seal around the patient's mouth. However, Berthon-Jones does teach a breathing mask for monitoring a patient during gas delivery which breathing mask is disclosed as being a nose mask, a face mask, or a nose and face mask (**See Col. 7, lines 47-49**) to provide a sealing fit to a patient's face. Therefore, it

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would have been obvious to one of ordinary skill in the art at the time of the invention to substitute the nasal mask of Miles with a combination nose and face mask of Berthon-Jones which would form a seal around both the nose and the mouth to provide a sealing fit to a patient's face. Furthermore, providing a combination nose and face mask that covers both the nose and the mouth ensures that all of the supplied air or oxygen is delivered to the patient if there is blockage either in the nasal passageway or the oral passageway.

15. **As to claim 78**, Miles teaches a breathing mask **3,26** for monitoring a patient during gas delivery comprising a body (**See Fig. 2 attachment above**) having an internal surface (**inherent from Fig. 2 attachment above since mask is shown to be cupping the nose**), an external surface (**See Fig. 2 attachment above**), and a perimeter surface (**See Fig. 2 attachment above**) shaped to form a seal around the patient's nose; and at least one EEG sensor (**See Col. 4, lines 33-35; lines 44-45; lines 55-59; Col. 5, lines 6-15; and Col. 7, lines 37-51 which disclose a plurality and variety of sensors including an EEG sensor and further teach that the sensors may be mounted inside the mask or connected to the mask and therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to couple the EEG sensor to the body as providing an alternative placement for the sensors, which sensor would be capable of being positioned on a patient's forehead upon application of the body to a patient**). Miles teaches essentially all of the limitations except for wherein the body has a perimeter surface adapted to seal around the patient's mouth. However, Berthon-Jones does teach a

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breathing mask for monitoring a patient during gas delivery which breathing mask is disclosed as being a nose mask, a face mask, or a nose and face mask (**See Col. 7, lines 47-49**) to provide a sealing fit to a patient's face. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to substitute the nasal mask of Miles with a combination nose and face mask of Berthon-Jones which would form a seal around both the nose and the mouth to provide a sealing fit to a patient's face. Furthermore, providing a combination nose and face mask that covers both the nose and the mouth ensures that all of the supplied air or oxygen is delivered to the patient if there is blockage either in the nasal passageway or the oral passageway.

16. Claims 62-66, 68, 69, 70, 71, 73, 74, 75, and 76 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miles (US 5,353,788).

17. **As to claim 62**, Miles teaches a nasal ventilation mask **3,26** comprising a body (**See Fig. 2 attachment above**) having an internal surface (**inherent from Fig. 2 attachment above since mask is shown to be cupping the nose**), an external surface (**See Fig. 2 attachment above**), and a perimeter surface (**See Fig. 2 attachment above**) adapted to form a seal around a patient's nose (**See Fig. 2 attachment above**), an air hose **2** extending from the body; and at least one EMG sensor (chin) (**See Col. 7, lines 39-40**). It should be noted that Miles also teaches that that some of the sensors may be mounted inside or connected to the mask (**See Col. 4, lines 44-45**). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention and based on the disclosure by Miles that the sensors,

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including an EMG (chin) sensor, may be placed inside the mask or connected to the mask thereby providing an alternative placement of the sensor and thus be capable of detecting muscle activity relating to a sleep state as recited.

18. **As to claim 63**, Miles teaches essentially all of the limitations including a first sensor for detecting nasal breathing (**See Col. 5, lines 12-14**) and a second sensor for detecting oral breathing (**See Col. 7, lines 41-42**) except for the location of the sensors.

It should be noted that Miles also teaches that that some of the sensors may be mounted inside or connected to the mask (**See Col. 4, lines 44-45**). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention and based on the disclosure by Miles that the sensors may be placed inside the mask or connected to the mask thereby providing an alternative placement for the sensors.

19. **As to claim 64**, Miles teaches a mask wherein the first and second sensors are thermal sensors (**See Col. 5, lines 12-14 and See Col. 7, lines 41-42**).

20. **As to claim 65**, Miles teaches essentially all of the limitations including an EEG sensor (**See Col. 4, lines 33-35; lines 55-59; Col. 5, lines 6-15; and Col. 7, lines 37-51**) except for the EEG sensor positioned on the perimeter surface. However, Miles also teaches that some of the sensors may be mounted inside or connected to the mask (**See Col. 4, lines 44-45**). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention and based on the disclosure by Miles that the sensors, including an EEG sensor, may be placed inside the mask or connected to the mask (a perimeter surface is encompassed by the disclosure) to provide an alternative placement of the sensor.

21. **As to claim 66**, Miles teaches essentially all of the limitations including an EOG sensor (**See Col. 4, lines 36-37; lines 55-59; and Col. 7, line 39**) except for the EOG sensor positioned on the perimeter surface. However, Miles also teaches that some of the sensors may be mounted inside or connected to the mask (**See Col. 4, lines 44-45**). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention and based on the disclosure by Miles that the sensors, including an EOG sensor, may be placed inside the mask or connected to the mask (a perimeter surface is encompassed by the disclosure) to provide an alternative placement of the sensor.

22. **As to claim 68**, Miles teaches essentially all of the limitations including a plurality of straps (**See Fig. 2**) except for the straps having at least one sensor positioned thereon. However, Miles also teaches that some of the sensors may be mounted inside or connected to the mask (**See Col. 4, lines 44-45**). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention and based on the disclosure by Miles that the sensors, may be placed inside the mask or connected to the mask (the straps being connected to the mask) to provide an alternative placement of the sensor.

23. **As to claim 69**, Miles teaches essentially all of the limitations including a position sensor (**See Col. 4, line 58 which discloses overall physical movement which the Examiner considers equivalent to a position sensor since a position sensor would detect any movement or lack thereof; See also Col. 7, lines 46-49**) except for the position sensor positioned on the perimeter surface. However, Miles also teaches

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that some of the sensors may be mounted inside or connected to the mask (**See Col. 4, lines 44-45**). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention and based on the disclosure by Miles that the sensors, including a position sensor, may be placed inside the mask or connected to the mask to provide an alternative placement of the sensor.

24. **As to claim 70**, Miles teaches essentially all of the limitations including a microphone **10 (See also Col. 7, lines 42-43)** except for the microphone coupled to the body. However, Miles also teaches that some of the sensors may be mounted inside or connected to the mask (**See Col. 4, lines 44-45**). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention and based on the disclosure by Miles that the sensors, including a microphone which would sense breathing and snoring, may be placed inside the mask or connected to the mask to provide an alternative placement of the microphone.

25. **As to claim 71**, Miles teaches essentially all of the limitations including a sensor to detect air leaks (**Please note, Col. 4, lines 35-36 and line 56; Col. 5, lines 22-31; and Col. 7, lines 41-44 teach an airflow sensor and a pressure sensor which would indirectly sense air leaks should there be a pressure drop which would also effect the airflow**) except for the location of such a sensor on the perimeter surface. However, it should be noted that Miles also teaches that some of the sensors may be mounted inside or connected to the mask (**See Col. 4, lines 44-45**). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention and based on the disclosure by Miles that the sensors, including one senses air leaks

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via a airflow sensor or pressure sensor, may be placed inside the mask or connected to the mask (a perimeter surface is encompassed by the disclosure) to provide an alternative placement of the sensor.

26. **As to claim 73**, Miles teaches a nasal ventilation mask **3,26 (See Fig. 2 attachment above)** adapted to form a seal around a patient's nose (**See Fig. 2 attachment above**), an EEG sensor (**See Col. 4, line 59 and Col. 7, line 39**). Miles does not explicitly teach the EEG sensor coupled to the mask. However, it should be noted that Miles also teaches that that some of the sensors may be mounted inside or connected to the mask (**See Col. 4, lines 44-45**). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention and based on the disclosure by Miles that the sensors, including an EEG sensor, may be placed inside the mask or connected to the mask thereby providing an alternative placement of the sensor and thus be capable of being positioned on a patient's forehead upon application of the nasal mask.

27. **As to claim 74**, Miles teaches a mask **3,26** furthering comprising a computer **25** in communication with the sensors, the computer adapted to determine arousal (**See Col. 4, lines 32-66; please note the Examiner considers overall physical movement, leg movement, eye movement, EEG all to detect some form of arousal**).

28. **As to claim 75**, Miles teaches a mask **3,26** furthering comprising a computer **25** in communication with the sensors, the computer adapted to determine sleep state (**See Col. 4, lines 32-66; please note the Examiner considers breathing sounds, overall**

physical movement, leg movement, eye movement, EEG, sleep position all to detect some form of sleep state).

29. **As to claim 76**, Miles teaches a mask further comprising an EMG sensor (chin) **(See Col. 7, lines 39-40)**. Miles does not explicitly teach the EMG sensor coupled to the nasal mask. However, it should be noted that Miles also teaches that that some of the sensors may be mounted inside or connected to the mask **(See Col. 4, lines 44-45)**. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention and based on the disclosure by Miles that the sensors, including an EMG (chin) sensor, may be placed inside the mask or connected to the mask thereby providing an alternative placement of the sensor.

30. Claim 67 is rejected under 35 U.S.C. 103(a) as being unpatentable over Miles (US 5,353,788) in view of Bornn (US 5,353,793).

31. **As to claim 67**, Miles teaches essentially all of the limitations except for wherein a portion of the perimeter is comprised of a conductive carbonized rubber material. It should be noted that Bornn does teach the use of physiological sensors such as ECG, piezoelectric sensors for monitoring respiration and pulse, temperature sensors, and activity and position sensor, which come into contact with the patient's skin. Bornn further provides a conductive carbonized rubber material **(See Col. 7, lines 34-37 of Bornn)** for providing electrical contact between a person's skin and the sensor.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to provide a portion of the perimeter surface with a conductive carbonized rubber material as taught by Bornn to provide an electrical contact between a person's

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skin and the sensor since Miles discloses that the sensors may be mounted inside the mask (which would include a portion of the perimeter surface).

32. Claim 72 is rejected under 35 U.S.C. 103(a) as being unpatentable over Miles (US 5,353,788) in view of Wiesmann et al (US 6,199,550).

33. **As to claim 72**, Miles teaches essentially all of the limitations except for the mask further comprising a patient recycled air detection system positioned on the internal surface. Wiesmann et al teaches a mask with sensors including a sensor which monitors exhaled carbon dioxide (**See Col. 5, line 42**) located on the internal surface of the mask (**See Fig. 3 of Wiesmann et al**). It should be noted that the sensor of Wiesmann et al is equivalent in scope to the recycled air detection system of Applicant since Applicant on page 10 of the specification discloses that the air detection system has a sensor that detects the amount of expired air from the patient remaining in the mask. The Wiesmann et al sensor monitors the exhaled carbon dioxide and would also indirectly detect any remaining exhaled air in the mask since the Wiesmann sensor is located on the interior of the mask. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to provide a sensor that monitors exhaled carbon dioxide in the mask of Miles as taught by Wiesmann et al so that the amount of air exhaled by the patient would be detected by the sensor and indirectly measure the exhaled air remaining in the mask.

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Conclusion

34. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US 6,000,395.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mital B. Patel whose telephone number is 703-306-5444. The examiner can normally be reached on Monday-Friday (8:00 - 4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Bennett can be reached on 703-308-0101. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Mital B. Patel
Examiner
Art Unit 3743